

Wireless transmission using an adaptive transmit antenna array

Bibliographic data

Description
Claims

INPAD
OC
legal
status



Publication number: JP2005524331 (T)

Also published as:

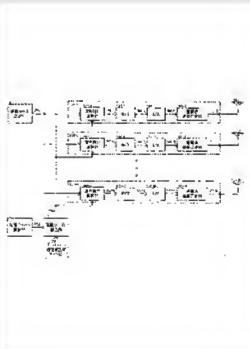
Publication date: 2005-08-11

Inventor(s):

Applicant(s): MOTOROLA ENERGY SYSTEMS INC.

Classification:

- **international:** H04B1/707; H04B7/04; H04B7/06; H04B7/08; H04B1/707; H04B7/04; H04B7/08; (IPC1-7): H04B7/04; H04B1/707; H04B7/06
- **European:** H04B7/06C2D; H04B7/06C1F1W; H04B7/06C1F3C; H04B7/06C1F5R; H04B7/08C4C; H04B7/08C4J2; H04B7/08S



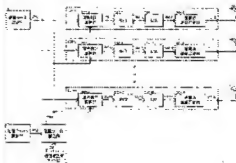
EP1359684
(A1)

Application number: JP20040502500T 20030418

Priority number(s): EP20020291093 20020430;
WO2003EP04184 20030418

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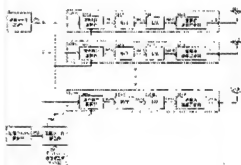
US2005117660
(A1)



US7248645
(B2)



WO03094386
(A1)



CN1650542 (A)

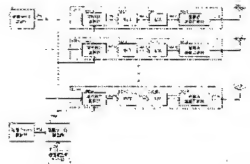
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Abstract not available for JP 2005524331 (T)

Abstract of corresponding document: **EP 1359684 (A1)**

Closed loop wireless communication of signals using an adaptive transmit antenna array (3), in which a plurality of copies of signals to be transmitted by the transmit antenna array (3) are produced with delays and weights ($w_{j,n}$) that are functions of the multi-path transmission channel characteristics (H) from the transmit antenna array (3) to a receive antenna array (4) of a receiver (2) and are combined before transmission by the transmit antenna array. The delays and weights ($w_{j,n}$) of the transmit copies for each transmit antenna element are functions of the respective multi-path transmission channel characteristics ($h_l=1_n, m=1, \dots, h_l=L_n, m=M$) from that transmit antenna element to the receive antenna array (4) such that the multi-path signal components propagated to each receiver element are received with distinguishable delays according to the propagation path. The receiver (2) combines the received signal components from each receive antenna element with delays and weights (u) that are respective functions of the multi-path transmission channels. Preferably, the receiver comprises a multi-finger RAKE receiver (6) that copies the received signals from the receive antenna array with delays and weights (u) that are respective functions of the multi-path transmission channels and combines the copied received signals.



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